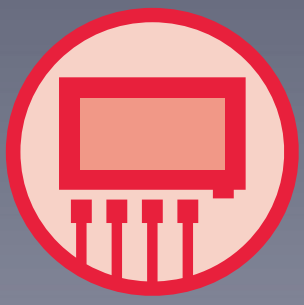
8 Port Nway Fast Ethernet Web Smart Switch

Model: 065-7508



Active

User‘s Guide

SIGNAMAX™
CONNECTIVITY SYSTEMS

FCC Warning

This device has been tested and found to comply with limits for a Class B digital device, pursuant to Part 2 and 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

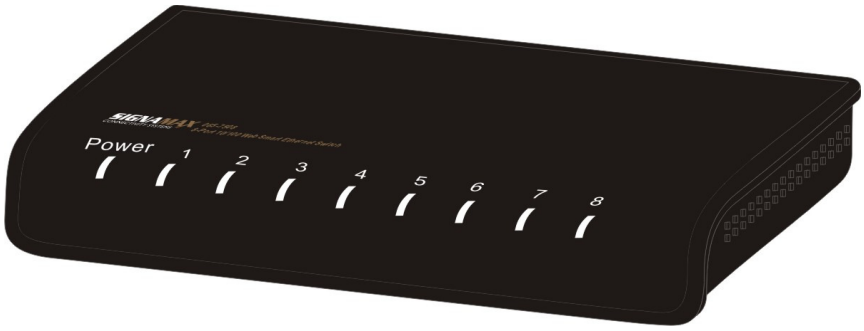
CE Warning

This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Introduction

065-7508 switch provides 8 10/100M ports. 065-7508 switch was designed for easy installation and high performance in an environment where traffic is on the network and the number of users increases continuously.

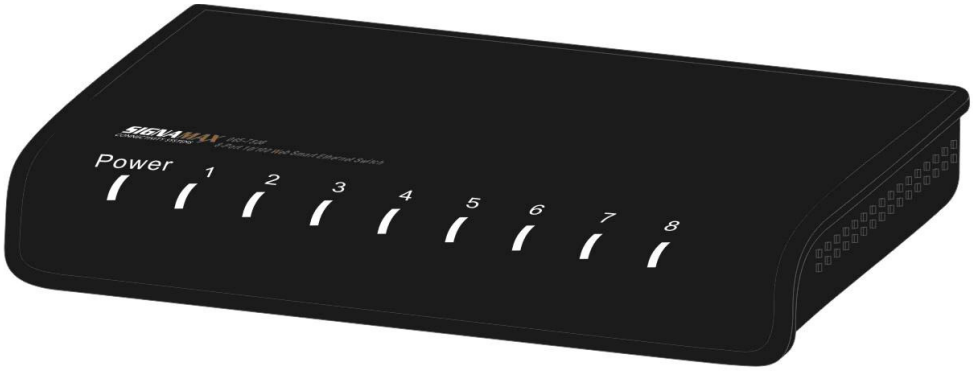
The small palm size with transparent plastic case was specifically designed for small to medium workgroups. 065-7508 switch can be installed where space is limited; moreover, it provides smooth network migration and easy upgrade to network capacity.



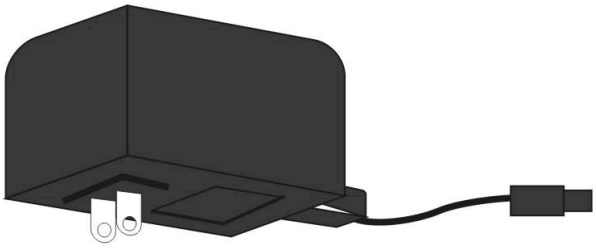
Package Contents

Before you start to install this switch, please verify your package that contains the following items:

- One 065-7508 Fast Ethernet Switch
- One Power Adapter
- One CD with User's Manual



8 Port Switch



Power Adapter

CD with
User's Manual

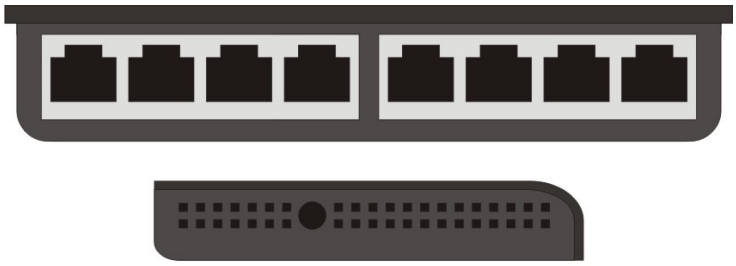
Note: If any of these items is found missing or damaged, please contact your local supplier for replacement.

Key Features

- 8 Port 10/100M Nway (Auto-negotiation) Switch
- Palm size with plastic case
- Auto-learn of networking configurations
- Auto-detect full/half-duplex modes for any port
- Dedicated full-duplex 200Mbps bandwidth
- Store-and-Forward switching methods
- IEEE 802.3x flow control for full-duplex and back-pressure flow control for half-duplex
- Non-blocking & Non-head-of-line blocking full wire speed forwarding
- Auto-MDI/MDI-X function for any port
- Smart plug & play

Power

Power is supplied through an external DC power adapter.



8 Port Switch

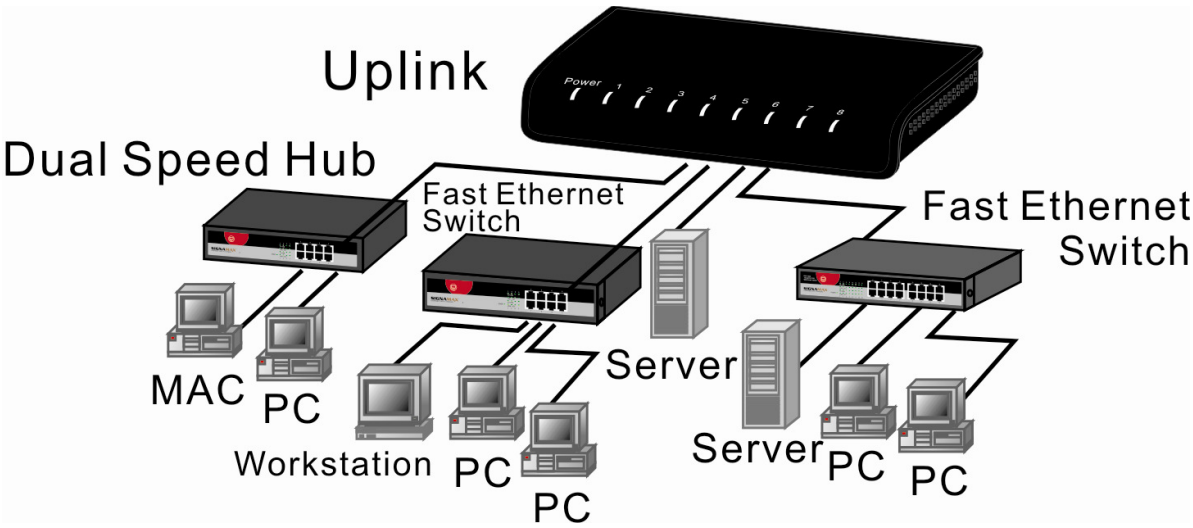
Front Panel (LEDs)

LED Indicators of 8 Port 10/100M Switch

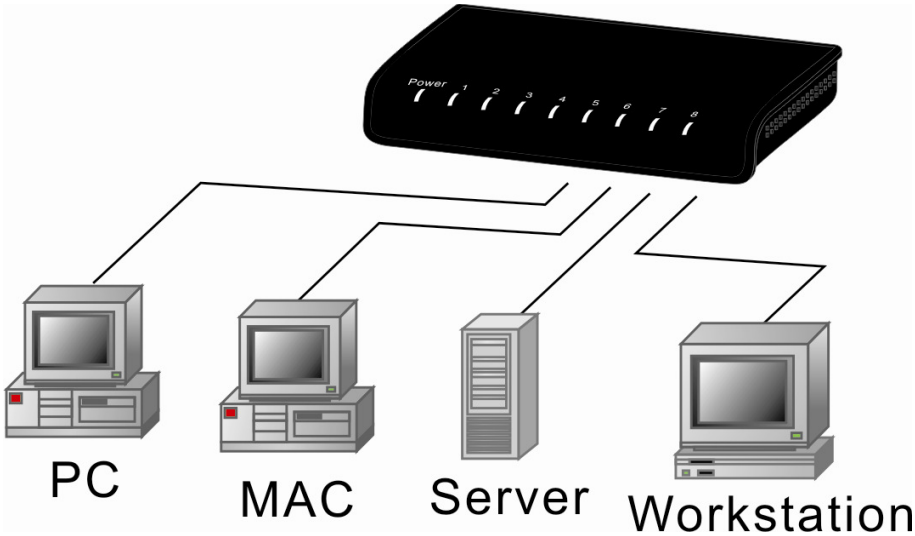
LED	Status	Operation
Power	On	Power is on.
	Off	Power is off.
LINK/ACT	On	Port is for connection
	Off	No connection.
	Flashing	Data is transmitting or receiving.

Rear Panel (Connections)

Switch/Hub to 065-7508 Fast Ethernet Switch
This switch provides automatic crossover detection functionality for any port. It is simple and friendly to up-link to another switch without crossover cable.



PC/Other devices to 065-7508 Fast Ethernet Switch
Via a twisted pair cable straight through, this switch can be connected to PCs, servers and other network devices.



Technical Specifications

Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3x Flow control
Features	Number of Ports: 8 MAC Address: 1K Buffer Memory: 512K bits Transmission Method: Store and Forward
Filtering/Forwarding Rates	100Mbps port – 148,800pps 10Mbps – 14,880pps
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP
LED Indicators	Per Port: LINK/ACT Per Unit: Power

Power Supply	DC 7.5V/0.8A
Power Consumption	6 Watts (Max)
Dimensions	140 x 105 x 25 mm (L x W x H)
Weight	224 g
Operating Temperature	0 to 55℃
Storage Temperature	-20 to 90℃
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class B, CE

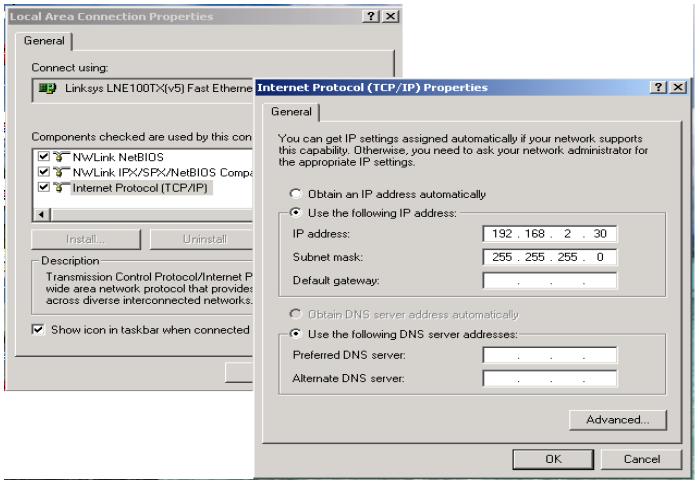
Web Smart Switch

Configure

Please follow the steps to configure this Web Smart switch.

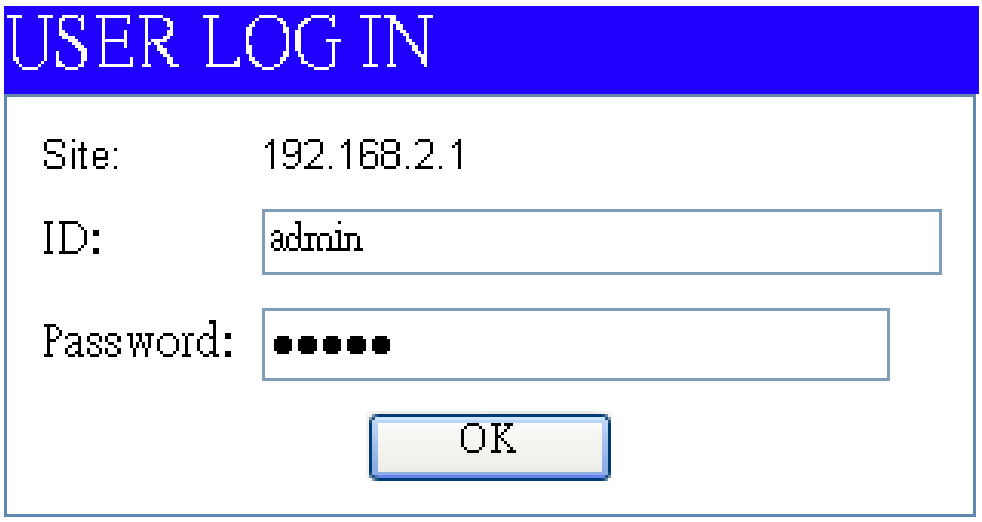
Step 1:
Use a twisted pair cable to connect this switch to your PC.

Step 2:
Set your PC's IP to 192.168.2.xx.


Local Area Connection Properties
General
Connect using:
Linksys LNE100TX(v5) Fast Etherne
Components checked are used by this con
NWLink NetBIOS
NWLink IPX/SPX/NetBIOS Compa
Internet Protocol (TCP/IP)
Install...
Uninstall
Description
Transmission Control Protocol/Internet P
wide area network protocol that provide
across diverse interconnected networks.
Show icon in taskbar when connected
Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 2 . 30
Subnet mask: 255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Step 3:

Open the web browser (like IE…), and go to 192.168.2.1 site, and then you will see the login screen.



Key in the user ID and the password to pass the authentication,

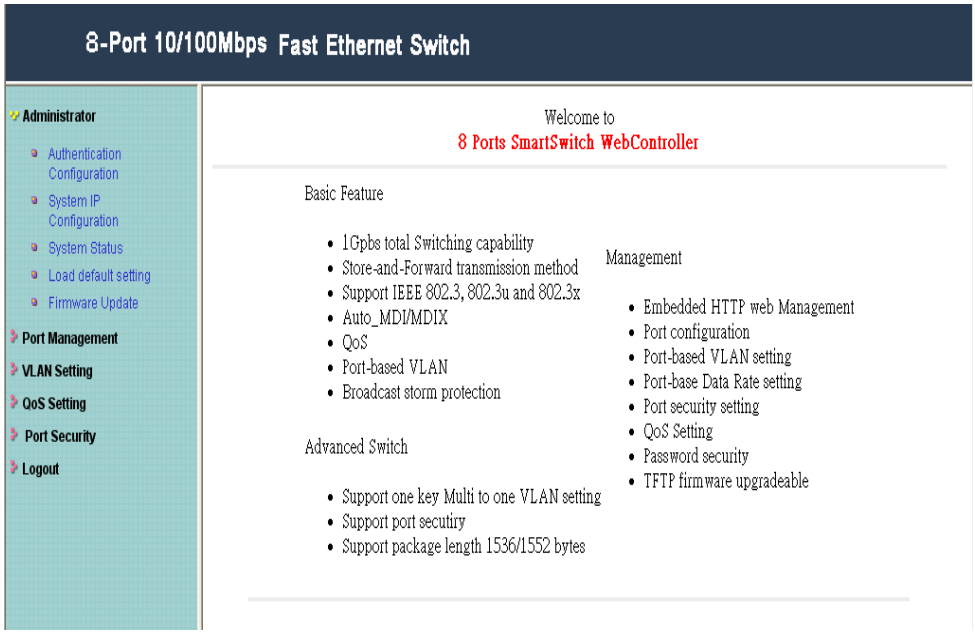
IP: 192.168.2.1
ID: admin
Password: admin

After the authentication procedure, the home page shows up.

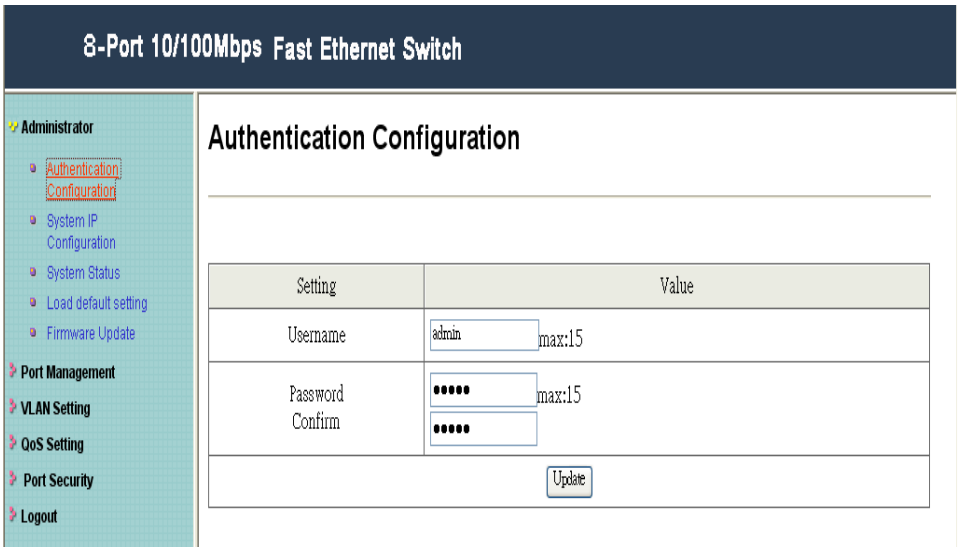
Step 4:

On the following home page, select the configuration by clicking the icon. It includes,

- Administrator
- Port Management
- VLAN Setting
- QoS Setting
- Port Security
- Logout

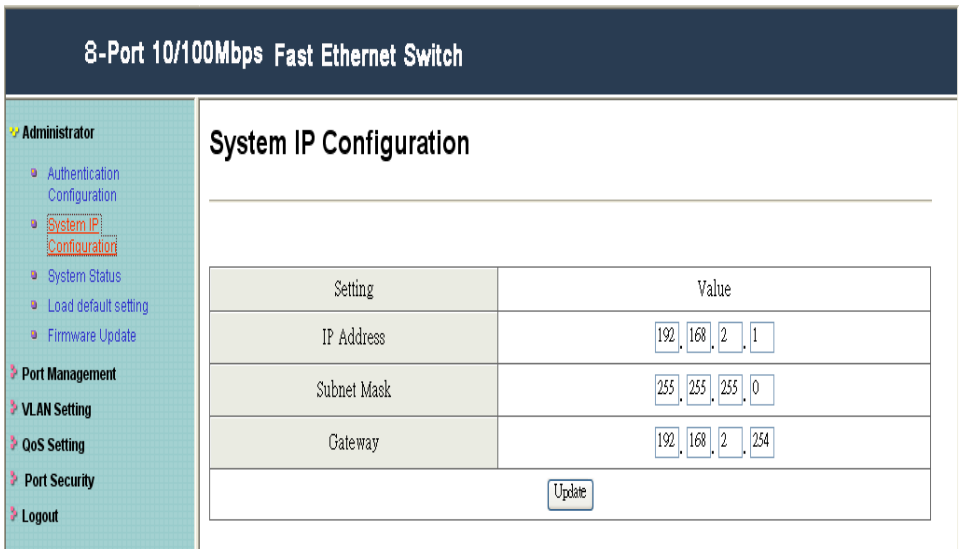


Administrator: Authentication Configuration



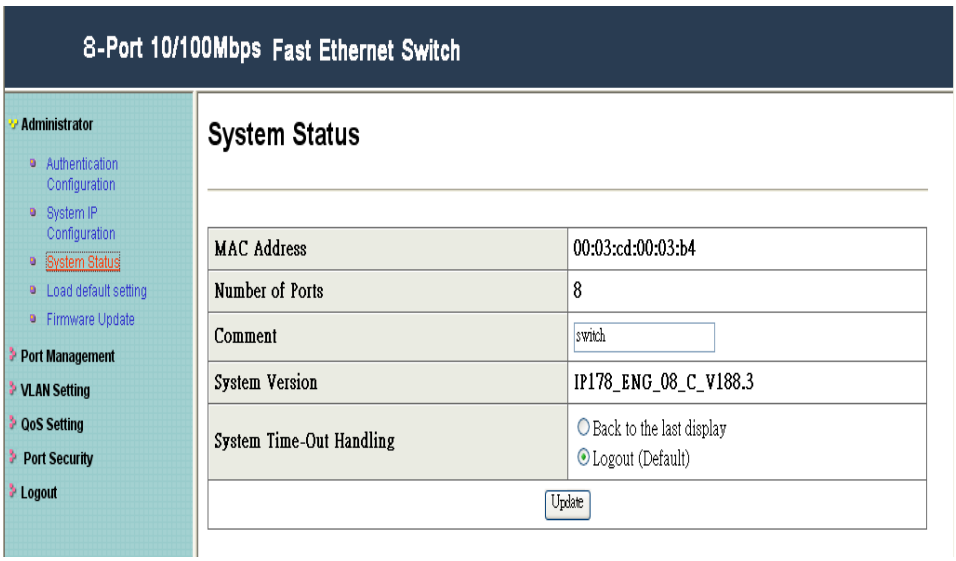
You can change the user name and the password, and click “Update” to confirm the new change. After that, you can reset this switch by power off and then power on to take the new user name and the password effectively.

Administrator: System IP Configuration



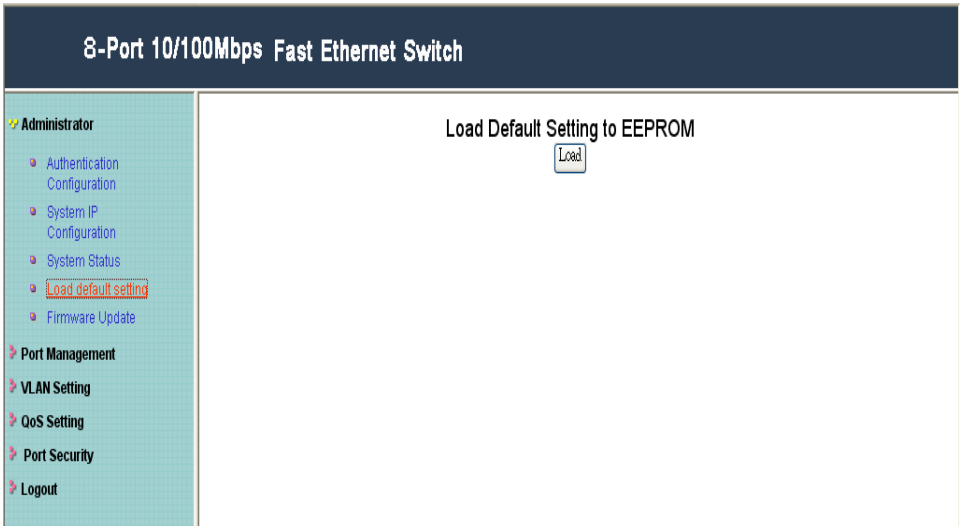
You can change the IP address by typing the new IP address and click “Update” to confirm the new change, and then the message will show “Setting Process OK!!”, After that, you should reset this switch by power off and then power on it to complete the new change.

Administrator: System Status



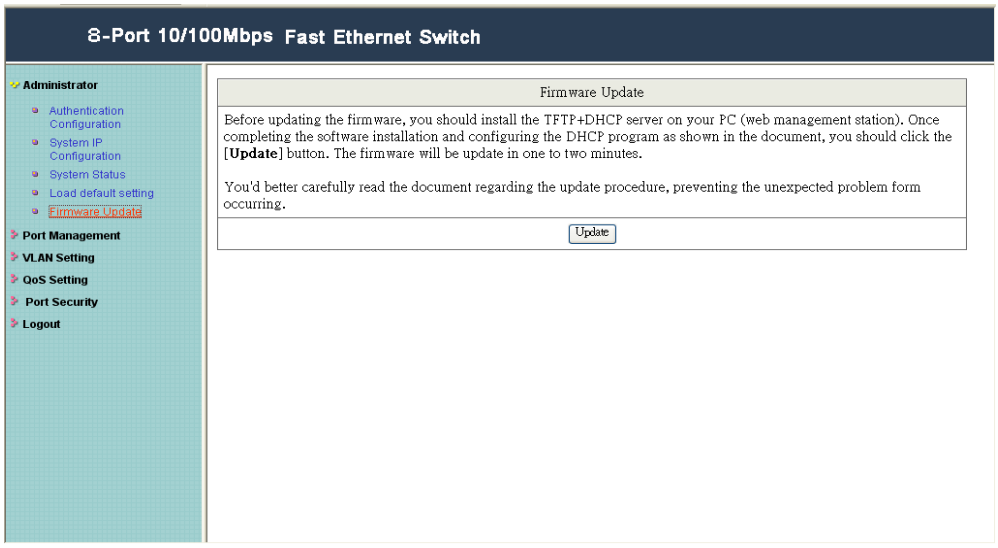
It shows this switch MAC address and system version. You can change the new comment of this switch by typing the new comment and click “Update” to confirm the new change.

Administrator: Load Default Setting to EEPROM



You can click “Load” to load the factory default setting, and then reset the switch by power off and then power on to take it effectively.

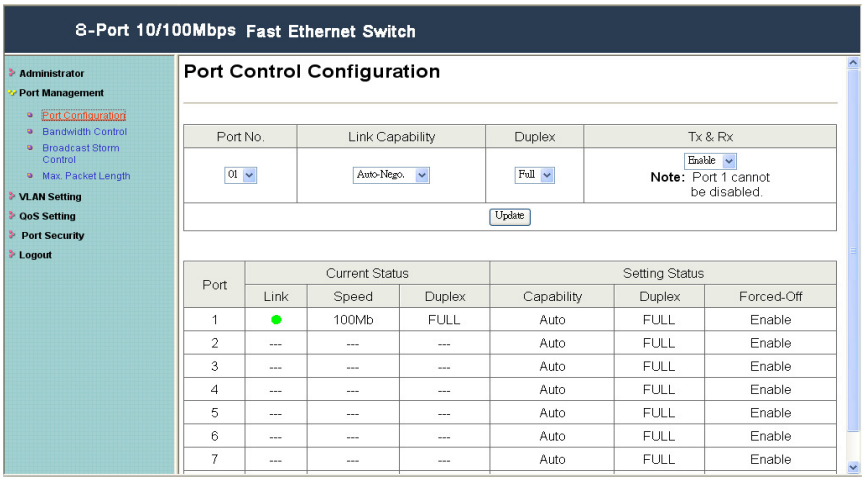
Administrator: Firmware Update


8-Port 10/100Mbps Fast Ethernet Switch
Administrator
Authentication Configuration
System IP Configuration
System Status
Load default setting
Firmware Update
Port Management
VLAN Setting
QoS Setting
Port Security
Logout
Firmware Update
Before updating the firmware, you should install the TFTP+DHCP server on your PC (web management station). Once completing the software installation and configuring the DHCP program as shown in the document, you should click the [Update] button. The firmware will be update in one to two minutes.
You'd better carefully read the document regarding the update procedure, preventing the unexpected problem form occurring.
Update

Follow the instruction on the screen to update the new firmware. Please contact with your sales agents to get the

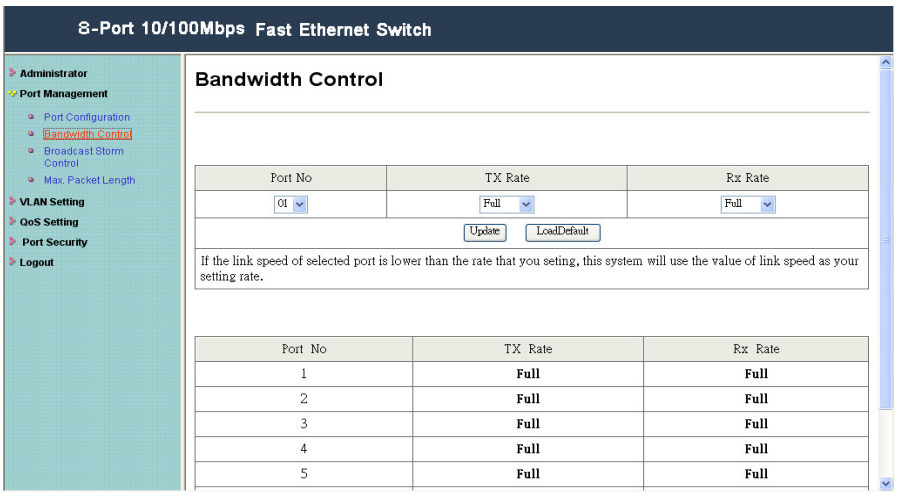
latest firmware information.

Port Management: Port Control Configuration



Select the “Port No.” which you want to configure the mode below,
“Link Capability” – you can select the port is Auto-Nego, 10M or 100M mode
“Duplex” you can select the port is full or half-duplex mode.
“TX & RX” - you can enable/disable the port.
Note: The 1st port can’t be disabled.

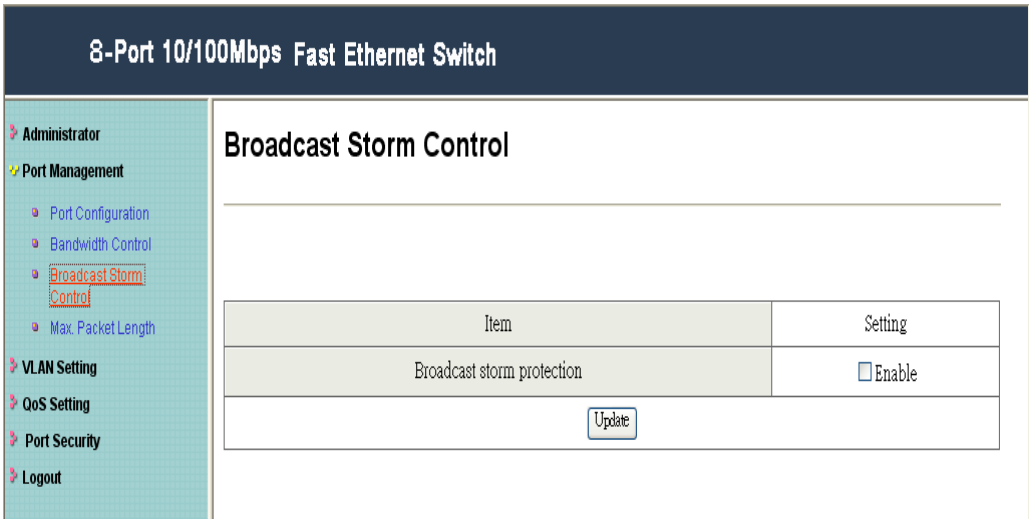
Port Management: Bandwidth Control



Select the “Port No.” which you want to configure the mode below,
“TX Rate” is meant you can set the maximum transmission rate of this selected port and choose the full speed or in 128K/256K/512K/1M/2M/4M/8M speed.

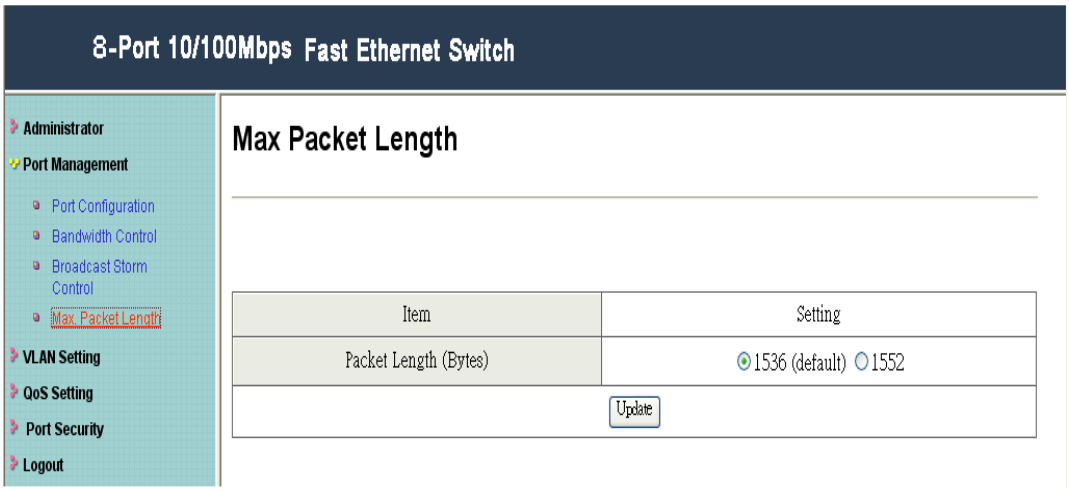
“RX Rate” is meant you can set the maximum receiving rate of this selected port and choose full speed or in 128K/256K/512K/1M/2M/4M/8M speed.

Port Management: Broadcast Storm Control



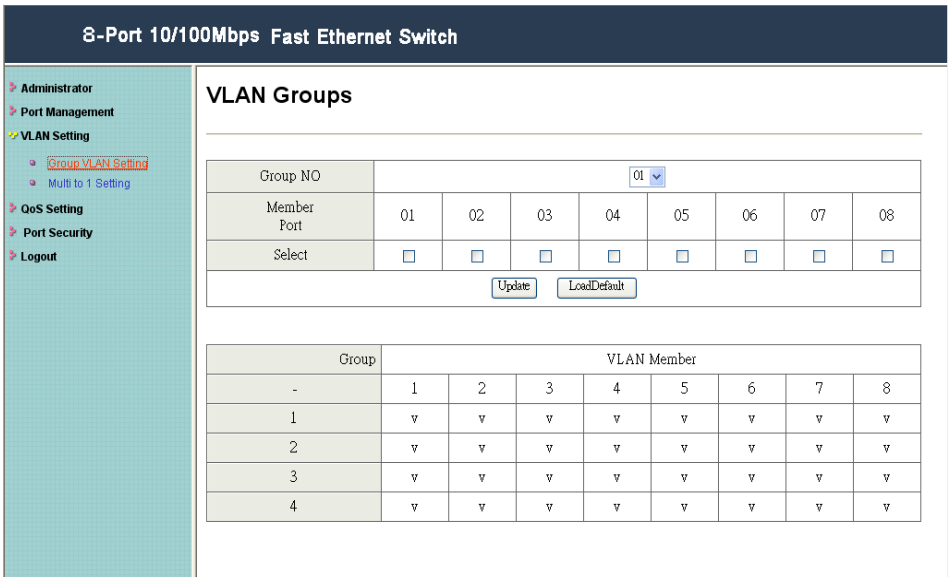
You can enable or disable the broadcast storm protection feature by clicking “Update”.

Port Management: Max Packet Length



Select the maximum packet length setting, 1536 Bytes or 1522 Bytes for the switch.

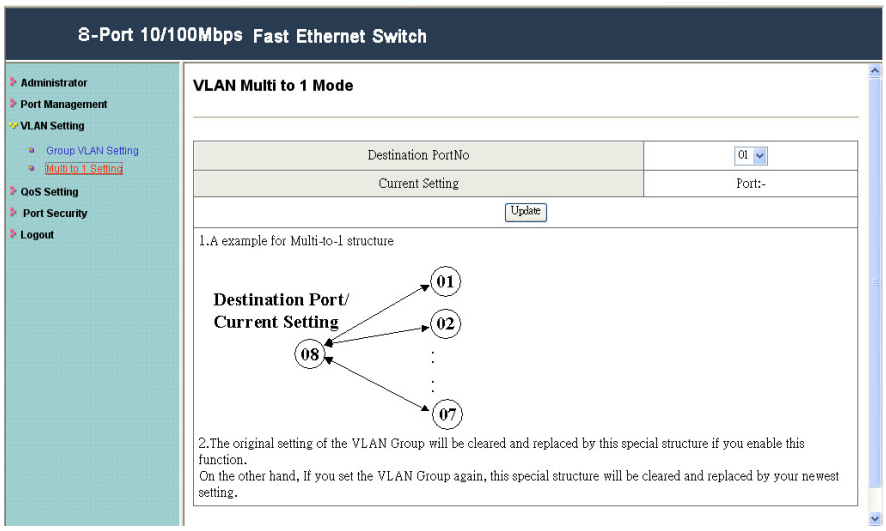
VLAN Setting: Group VLAN setting



There are 4 VLAN groups, 01, 02, 03, 04, can be used.

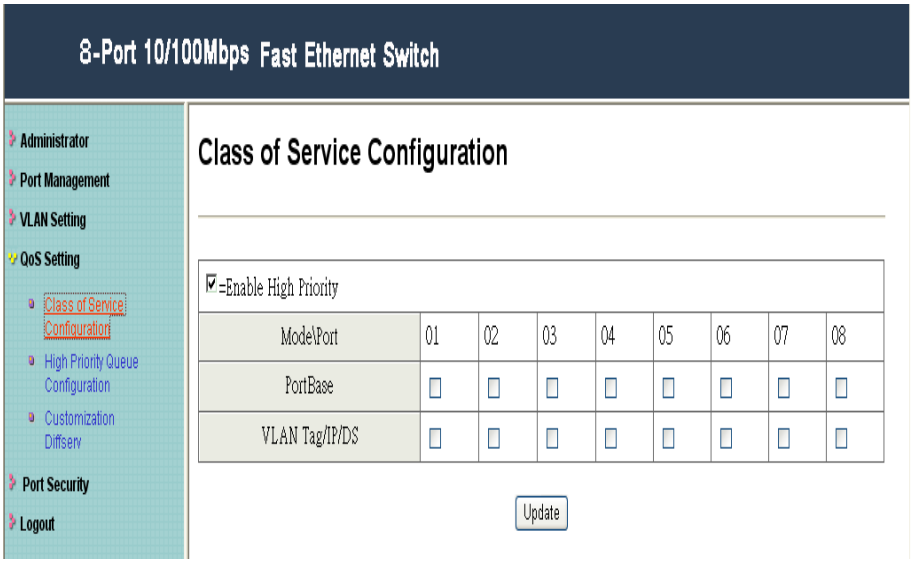
Select a group, and then click the port number which you want to put it into the selected VLAN group.

VLAN Setting: Multi to 1 Setting



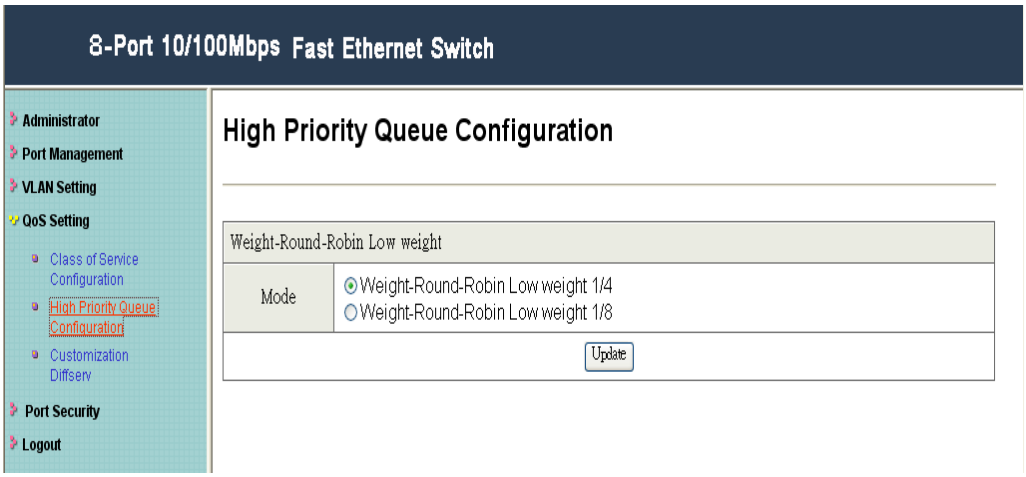
This is a special design for easily setting the switch VLAN into “VLAN Per Port“. After this setting, all ports can only connect to the destination port.

QoS Setting: Class of Service Configuration



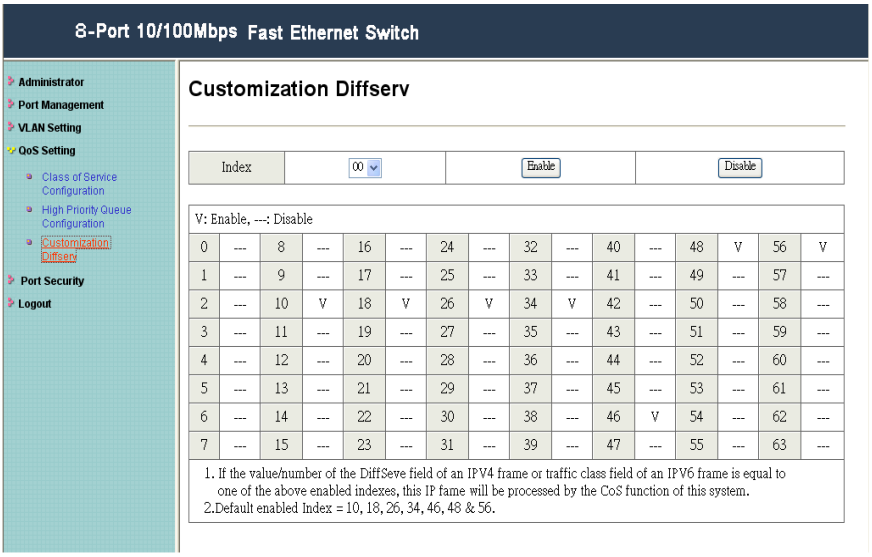
You can set QoS mode of per port by different bases as below,
“Port Base” – you can select the port which you want to configure as high priority and then the packets of the port will be firstly transmitted.
“VLAN Tag/IP/DS” – you can select the port which you want to configure as packets with special Tag/IP will be firstly transmitted.

QoS Setting: High Priority Queue Configuration



"Weight-Round-Robin" – WRR, you can set the ratio of the transmitting packet for the low priority to high priority.
You can select WRR to be 1/4 or 1/8.

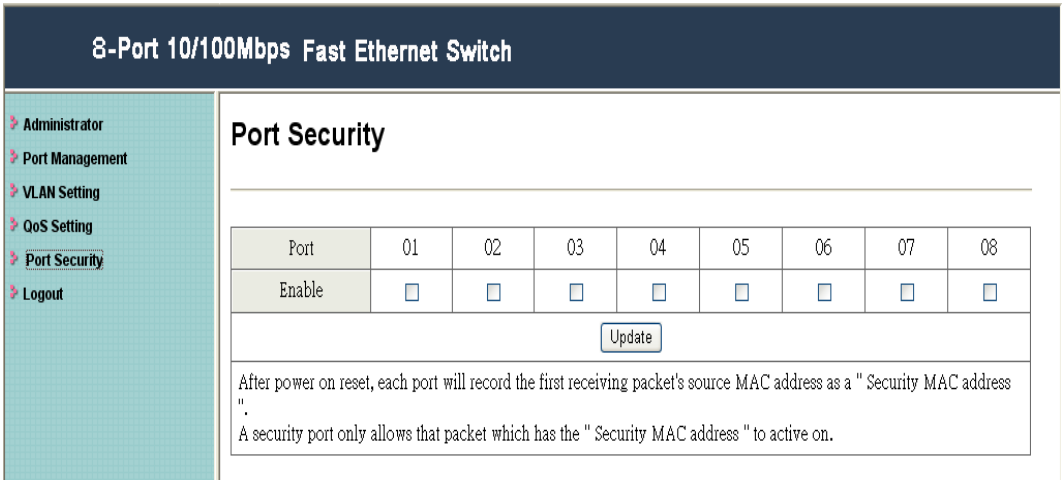
QoS Setting: Customization Diffserv


8-Port 10/100Mbps Fast Ethernet Switch
Administrator
Port Management
VLAN Setting
QoS Setting
Class of Service Configuration
High Priority Queue Configuration
Customization Diffserv
Port Security
Logout
Customization Diffserv
Index
00
Enable
Disable
V: Enable, ---: Disable
1. If the value/number of the DiffSeve field of an IPV4 frame or traffic class field of an IPV6 frame is equal to one of the above enabled indexes, this IP fame will be processed by the CoS function of this system.
2.Default enabled Index = 10, 18, 26, 34, 46, 48 & 56.

0	---	8	---	16	---	24	---	32	---	40	---	48	V	56	V
1	---	9	---	17	---	25	---	33	---	41	---	49	---	57	---
2	---	10	V	18	V	26	V	34	V	42	---	50	---	58	---
3	---	11	---	19	---	27	---	35	---	43	---	51	---	59	---
4	---	12	---	20	---	28	---	36	---	44	---	52	---	60	---
5	---	13	---	21	---	29	---	37	---	45	---	53	---	61	---
6	---	14	---	22	---	30	---	38	---	46	V	54	---	62	---
7	---	15	---	23	---	31	---	39	---	47	---	55	---	63	---

Please follow the instruction on the screen to update the setting.

Port Security


8-Port 10/100Mbps Fast Ethernet Switch
Administrator
Port Management
VLAN Setting
QoS Setting
Port Security
Logout
Port Security
Port 01 02 03 04 05 06 07 08
Enable
Update
After power on reset, each port will record the first receiving packet's source MAC address as a " Security MAC address ".
A security port only allows that packet which has the " Security MAC address " to active on.

When this function is enabled, the port will record the first receiving source MAC address as the security MAC address and only allow the packet which has the MAC address activating on the port.

Logout: Click to logout